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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/807,042	03/22/2004	Lawrence J. Malone	QUOIP003	4076

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EXAMINER

JACKSON, BLANE J

ART UNIT	PAPER NUMBER
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2685

DATE MAILED: 06/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/807,042

Applicant(s)

MALONE ET AL.

Examiner

Blane J Jackson

Art Unit

2685

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 April 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3,5,7-17 and 20-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 20-26 is/are allowed.
- 6) ☒ Claim(s) 1,3,5 and 7-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see the Amendment, filed 23 April 2005, with respect to the rejection(s) of claim(s) 1-19 under Trompower with a view to Stockhusen have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration and in view of the amendment, a new ground(s) of rejection is made in view of Stockhusen and Tjalldin.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 3, 5 and 7-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stockhusen (US 2002/0132636 A1) with a view to Tjalldin et al. (US 6,768,896).

As to claims 1, 3 and 5, Stockhusen teaches a single transceiver system for utilizing a plurality of different communication standards comprising:

A single transceiver selectably configurable to a plurality of different communication standards (multi-mode multi-band mobile telephone comprising a single transceiver (figure 1A) driven by one of three or more chipsets to provide three or more

interface standards such as GSM, TDMA, CDMA or DECT for wireless communication, paragraphs 17-21), and

A memory configured to store information received by the single transceiver utilizing a first communication standard and configured to provide the information to the single transceiver for transmission (mode manager manages switching between air interfaces and routing of information and messages to the selected protocol stack or a MMI Manager for translation of information between the different air interface standards and adaptations for use, paragraph 27).

Stockhusen teaches multimode mobile telephone but does not teach a wireless device configured to utilize a first communication standard and configured to provide the information for transmission according to a second communication standard.

Tjalidin teaches a portable gateway bridge between two wireless networks including an integrated first interface for the Bluetooth network and a second interface for WLAN, GSM/GPRS or UMTS network, figure 1, column 2, lines 9-48. Tjalidin further teaches the gateway comprises an embedded server for distributing parameters related to the different networks and security that is accessed from a remote input wireless terminal such as a mobile telephone, column 2, lines 49-53.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the single transceiver of Stockhusen as a gateway between two wireless networks as taught by Tjalidin as a small application to better fit inside a pocket or small briefcase.

As to claims 3, Stockhusen teaches the system of claim 1 wherein the single transceiver demodulates received signals into information bits (digital air protocol, paragraph 21).

As to claim 7, Stockhusen teaches the system of claim 1 wherein the single transceiver utilizes the plurality of different communication standards by time multiplexing therebetween.

As to claim 8, Stockhusen teaches the single transceiver is necessarily coupled to an antenna sub-system capable of communicating utilizing the plurality of different communication standards (transceiver of figure 1A to process two or more air interface protocols, paragraph 18).

As to claims 9-11 with respect to claim 1, Stockhusen teaches a single transceiver is coupled to a plurality of baseband sub-systems each capable of processing one of the communication standards (figure 1A, different air interface standards on different chipsets (processors) (112) and (114) and figure 1B (116) with standards on the same chipset, paragraph 17).

As to claim 12 with respect to claim 9, Tjalldin of Stockhusen modified teaches at least one of a time and duration of access to the single transceiver by the baseband sub-systems is tracked ().

As to claim 13 with respect to claim 12, Stockhusen teaches each of the baseband sub-systems access the single transceiver during assigned time intervals (multiplexed air standards, paragraph 18).

As to claim 14 with respect to claim 9, Stockhusen teaches each of the baseband sub-systems share memory (paragraph 29) and Tjalldin teaches shared memory (embedded server with inherent processor and memory to signal process the interface of both networks, column 2, lines 49-54).

As to claim 15, Tjalldin of Stockhusen modified teaches the baseband sub-systems optimize a frequency or duration of transmissions or receptions in order to at least one of minimize a radio utilization, minimize a spectrum utilization, maximize a link throughput and optimize a system parameter (maximize throughput, column 1, lines 52-56).

As to claim 16, Stockhusen teaches the baseband sub-systems at least one of translate code, and decode information bits so as to make the information bits compatible with the plurality of different communication standards (Mode manager (238) includes a translator "MMI Manager" for translation of information between the different air interface standards, paragraph 27).

4. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tjalldin et al. (US 6,768,896) with a view to Stockhusen (US 2002/0132636 A1).

As to claim 17, Tjalldin teaches a method for utilizing a single transceiver comprising:

Receiving signals utilizing a first standard,

Demodulating the signals into information bits,

Re-modulating the information bits into signals utilizing a second standard, and

Transmitting the signals utilizing the second standard (a portable gateway to bridge between two wireless networks, figure 1, column 2, lines 9-48):

Tjalldin teaches two air standards with two transceivers and two antenna, column 2, lines 55-58, but does not teach receiving and transmitting are carried out utilizing a single transceiver.

Stockhusen teaches a system for controlling a multi-mode multi-band mobile telephone that uses a variety of techniques to select one of three or more interface standards such as GSM, TDMA or DECT to communicate utilizing a single transceiver (figure 1A, paragraphs 18-21).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the gateway of Tjalldin with the single transceiver circuits of Stockhusen to further minimize the size of the gateway for portable purposes.

Allowable Subject Matter

4. Claims 20-26 are allowed.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Lahetkangas et al. (US 2004/0162022) discloses an ad hoc network using a plurality of air protocols between terminals. Fors et al. (US 2004/0203788) discloses handoff from a cellular wireless network to a non cellular wireless network.
6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.
7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Blane J Jackson whose telephone number is (571) 272-

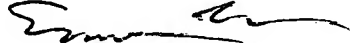
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7890. The examiner can normally be reached on Monday through Friday, 8:00 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban can be reached on (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BJJ


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